AMENDMENTS TO THE SPECIFICATION

Substitute Table 3 on page 19 with the following:

Table 3. Listed are the 8 virulence genes and 16S rDNA used in the multiplex-PCR assay, together with amplicon size, final primer concentration, and primer sequences.

Virulence Factor	E. coli group	Gene locus	Primer-	Amplicon size (bp)	Primer conc.	Primer sequence
Heat labile	ETEC	elt	LT-F	479	(μM)	(5'→ 3')
entero-toxin I	LILC	1611	LI-F	4/9	0.4	SEQ ID NO:1:
onicio toxin i		ĺ				AAACCGGCTTTG-
(LT1)			1.00			TCAGATATGATG
(LII)			LT-R		0.4	nt 1 - 22 of SEQ ID NO:2:
	1					TGTGCTCAGAT-
Hook ok-1-1-	- CTT-C	 				TCTGGGTCTCC
Heat stable	ETEC	sta	ST-F	171	0.25	SEQ ID NO:3:
entero-toxin I			Ť		ĺ	TCACCTTTCG-
ram.						CTCAGGATGC
(STI)		!	ST-R		0.25	SEQ ID NO:4:
		İ	ļ		ļ	ATAGCACCCG-
						GTACAAGCAGG
		estA-	ST-Fh	151	0.4	SEQ ID NO:5:
		humane				TTTCGCTCAGGA
						TGCTAAACCAG
	ł	1	ST-Rh	7	0.4	SEQ ID NO:6:
	1	1				CAGGATTACAACA
						CAATTCACAGCAGTA
		estA-	ST-Fp	160	0.4	SEQ ID NO:7:
	ļ	porcine	1		•	CTTTCCCCTCTTTT+ cmc . cmc
	1	1				CTTTCCCCTCTTTTAGTCAGTC AACTG
			ST-Rp	i	0.4	
			1		•.•	SEQ ID NO:8:
		1	1		1	CAGGATTACAACAAAGTTCAC
Intimin	EPEC /	eae	eae-F	377	0.2	AGCAG
		****	cuc .	1377	0.2	SEQ ID NO:9:
						GGYCAGCGTT-
(Eae)	VTEC		eae-R	-	0.0	TTTTCCTTCCTG
	1110		eac-K]	0.2	SEQ ID NO:11
		1				TCGTCACCAR-
Shiga toxin 1	VTEC	stx1/	VT1-F	260	0.04	AGGAATCGGAG
(Stx1) /	, The	34.77	VII-F	260	0.25	SEQ ID NO:13:
		1				GTTTGCAGTTG-
	Shigella		TIME D	4		ATGTCAGAGGGA
(VT1)	Snigetta	vtx I	VT1-R		0.25	SEQ ID NO:14:
(*11)	ĺ]	ĺ	CAACGAATGG-
Chica tawia 2	VTEC					CGATTTATCTGC
Shiga toxin 2 (Stx 2) /	VIEC	stx2/	VT2-F	420	0.25	SEQ ID NO:15:
						GGAATGCAAATC-
V				۱ ا		AGTCGTCACTC
Verocytotoxin 2 (VT2)		vxt2	VT2-R		0.25	SEQ ID NO:16:
						GCCTGTCGCCA-
			L			GTTATCTGACA
Invasion	EIEC /	ipaH	ipaH-F	647	0,1	SEQ ID NO:17;
plasmid		1	J	1		TTGACCGCCT-
prasmu		1	i		l I	I I I I A CACACAT

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antigen H (ipaH)	Shigella		ipaH-R		0.1	SEQ ID NO:18: ATCCGCATCA-
Entero- hemolysin	VTEC/	ehxA	ehx-F	533	0.05	CCGCTCAGAC SEQ ID NO:19: GGGAAAAGCC- GGAACAGTTCT
A (EhxA)	EPEC		ehx-R		0.05	SEQ ID NO:20: CCAGCATAAC- AGCCGATGTGAT
bundle- forming	EPEC	bfpA	bfp-F	307	0.4	SEQ ID NO:21: TCCAATAAGKC- GCAGAATGCTA
pilus A (BfpA)			btp-R		0.4	SEQ ID NO:23: CACCGTAGCCT- TTCGCTGAAG
16S rDNA	most	168	16S-F	1062	0.25	SEQ ID NO:24: GGAGGCAGCA- GTGGGGAATA
	gram ÷		16S-R		0.25	SEQ ID NO:25: TGACGGGCGG- TGTGTACAAG

R = G or A, Y = C or T, K = G or T

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Substitute Table 7, page 36, with the following:

Table 7. Oligonucleotide sequence of the capture probes used in the hybridization analyses of the 9 genes.

Probe design is described in "Detailed description of the invention".

Virulence factor	Encoded	Oligonucleotide probe sequences (5'→ 3')		
	by gene			
Heat labile entero-toxin I (LT)	elt	SEQ ID NO:26:		
		CTGGATTCATCATGCACCACAAGGTTGTG		
Heat stable entero-toxin I (ST)	Sta	SEQ ID NO:27:		
		CACAGCAGTAATTGCTACTATTCATGCTTTCAGGA		
Heat stable entero-toxin I (ST) human	estA-human	SEQ ID NO:28:		
		GTCCTGAAAGCATGAATAGTAGCAA		
Heat stable entero-toxin I (ST) porcine	estA-porcin	SEQ ID NO: 29:		
		GAGACTAAAAAGTGTGATGTTGTAAA		
Intimin (Eae)	eae	SEQ ID NO: 30:		
		TACCCGTTTAGGTATTGGTGGCGAATACTGG		
Verocytotoxin 1 (VT1)	vtx l	SEQ ID NO:31:		
		TCCAGAGGAAGGGCGGTTTAATAATCTACGG		
Verocytotoxin 2 (VT2)	vtx2	SEQ ID NO:32:		
		TGGTTTCATCATATCTGGCGTTAATGGAGTTCAG		
Invasion plasmid antigen H (IpaH)	іраН	SEQ ID NO:33:		
		CCAGCATCTCATACTTCTGCTCTTCTGCCTG		
Enterohemolysin A (EhxA)	ehxA	SEQ ID NO:34:		
		TGCTGAGAAAACAACGGGAAGGAGAGGA		
Bundle-forming pilus A (BfpA)	bfpA	SEQ ID NO: 35:		
		TCAGAAGTAATGAGCGCAACGTCTGCAATT		
16S rDNA	16S	SEQ ID NO:36;		
		AACGTATTCACCGTGGCATTCTGATCCAC		